

Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses was significantly higher than the number of incorrect responses in all cases. The number of correct responses was significantly higher than the number of incorrect responses in all cases. The number of correct responses was significantly higher than the number of incorrect responses in all cases.

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$$\frac{d}{dt} \left( \int_{\Omega} u^2 dx + \int_{\Gamma} u^2 dS \right) = -2 \int_{\Omega} u \Delta u dx - 2 \int_{\Gamma} u \nabla_T u \cdot \nu dS$$
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**ACKNOWLEDGMENTS**

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1. *What is the purpose of the study?*  
 2. *What are the research objectives?*  
 3. *What is the research design?*  
 4. *What are the variables?*  
 5. *What are the hypotheses?*  
 6. *What are the results?*  
 7. *What are the conclusions?*  
 8. *What are the limitations?*  
 9. *What are the implications?*  
 10. *What are the future research directions?*

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Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in YEA medium for 24 h at 28°C. The cell concentration was adjusted to 10<sup>8</sup> cells/ml. The cell suspension was mixed with the plant tissue and incubated for 24 h at 28°C. The plant tissue was then cultured on the selective medium. The transformation efficiency was determined as the number of transformants per 100 mg of plant tissue. The data are the mean ± SD of three independent experiments.

Enzymatic preparation of ampicillin from a mixture containing ampicillin and D-phenylglycine.

Enzyme:

Enzyme: *Aspergillus niger*, strain 101.

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ANSWER 1 OF 1. WELLS COPYRIGHT 1981. DEPARTMENT INFORMATION LTD.

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Enzyme: *Aspergillus niger*, strain 101.



D-phenylglycine (1.0 g) and water (4 ml) were added to the enzyme reactor. The reactor was stirred at 1 deg. C. The temperature was held at 1 deg. C. D-phenylglycine (1.0 g) and water (4 ml) were added to the reactor. The pH was approximately 8.0. At 10 minutes, the pH was maintained at 8.0 by titration with 0.1 N sulfuric acid. At 15 minutes, the amount of ampicillin was maximum and the pH reduced to 7.0 by addition of 0.1 N sulfuric acid. The enzyme reactor contained ampicillin (1.0 g), 6-APA (1.0 g), D-phenylglycine (1.0 g), and D-phenylglycine (1.0 g). The ampicillin D-phenylglycine slurry was removed from the enzyme reactor via the sieve filter by means of stirred filtration using a

pusher-plate

stirrer positioned 1.5 cm above the sieve. Stirring was in an upward direction at approximately 500 rpm. The reactor was flushed with water (1.0 g) and the pH was 1.0. The wash waters were also

removed

via the sieve filter. The slurry contained the slurry and wash waters were removed at 1 deg. C. The resulting slurry contained 80% of the total amount of ampicillin and greater than 40% of the total amount of D-phenylglycine produced in the

enzyme reactor. A mother liquor from an ampicillin crystallization step (0.7 g; 1 deg. C; pH 4.0) contained 1.0 g 6-APA, 0.1 g D-phenylglycine amine, 0.05

ampicillin and 0.05 D-phenylglycine. The mother liquor was

concentrated by evaporation with the aid of a TFE. The feed was supplied from a storage vessel, and the product returned to the same storage

vessel, which was stirred. The wall temperature of the TFE was adjusted to 65 deg. C and the pressure to 80 mbar. Circulation started at t = 0. The liquid temperature was maintained at 40 deg. C. Evaporation was stopped at t = 25 minutes, by which time 5635 g concentrate had been collected. The contents of the TFE and storage vessel were circulated for a further 1 hour while the temperature was lowered linearly from 40 deg. C to 1 deg. C. The concentrate (1.4 g) was collected. The TFE and storage vessel were flushed with 1.0 g water at 1 deg. C. The concentrate and wash water were combined and filtered on a glass filter (1.0 cm diameter; 1.0 minutes). The solid was re-washed with water (20 ml) at 1 deg. C to give ampicillin D-phenylglycine

wet cake (1.0 g). The mother liquor was discharged. The wet cake was quantitatively transferred to a stirred reactor with water (40 g). The slurry was stirred for 1 hour at 1 deg. C. Hydrochloric acid (0.1 g) was added over 4 minutes at 1 deg. C. After stirring for 1 minute, the slurry was filtered on a glass filter (1.0 cm diameter; 1 minute) and the

D-phenylglycine wet cake washed with water (10 ml) at 1 deg. C. The mother liquor and wash water were added to acid solution prepared by recrystallization of ampicillin. The final yield was 1.0 g ampicillin (90% including nuclei) or 1.0 g ampicillin (80% excluding nuclei) giving 90% ampicillin (90% relative to 6-APA).

ADVANTAGE - Process is simple and can be applied on an industrial scale. Losses of beta-lactam antibiotics are strictly reduced and

reliable

D-phenylglycine is recovered. D-phenylglycine is recovered as a highly soluble compound. Separation between the ampicillin and D-phenylglycine. Includes relatively little demand on beta-lactam antibiotics.

1.0 g wet cake (1.0 g) was

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1.0 g

enzymatic reaction, and the enzyme, solid D-phenylglycine, and beta-lactam, being all supplied. After the enzymatic reaction, the prod. mixt. from which at least the enzyme and solid D-phenylglycine have been removed, is treated with an aldehyde at a pH of 7.5-8.5 and the Schiff base : D-phenylglycineimine is prod. out.

aminopenicillanic acid 6-APA ,

D-phenylglycine

12304

D-phenylglycine 0.06 g, 0.1% solution : 0.1 ml

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**Figure 1**

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penicillin, ampicillin, etc.

Figure 1 is a schematic representation of the experimental design. It shows a sequence of four stages: 'Stimulus presentation', 'Response', 'Feedback', and 'Inter-trial interval'. Each stage is represented by a box containing a question mark. Arrows indicate the flow from one stage to the next, forming a continuous loop.

DR. ROBERT W. H. BAKER, JR., M.D., F.A.C.P.

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1. *What is the purpose of the study?*  
 2. *What are the research objectives?*  
 3. *What is the research design?*  
 4. *What are the variables?*  
 5. *What is the sample size?*  
 6. *What are the data sources?*  
 7. *What are the data collection methods?*  
 8. *What are the data analysis methods?*  
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 10. *What are the conclusions?*  
 11. *What are the limitations?*  
 12. *What are the implications?*  
 13. *What are the future research directions?*  
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1. *Journal of the American Medical Association*, 1997; 277: 1033-1037.

1. The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets. The second step is to analyze the data. The third step is to develop a plan. The fourth step is to implement the plan. The fifth step is to evaluate the results.

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A078 WD #5234-9 A; AL 1994-NL161 1994-T13; BE 1994-T16 A; FR 1994-NL161 1994-T13; GR 1994-NL161 1994-T13; IE 1994-NL161 1994-T13; IT 1994-NL161 1994-T13; NL 1994-NL161 1994-T13; PT 1994-NL161 1994-T13; RO 1994-NL161 1994-T13; TR 1994-NL161 1994-T13

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the 1990s, the number of people in the United States who are 65 years of age or older has increased by 50 percent, and the number of people 75 years of age or older has increased by 100 percent. The number of people 85 years of age or older has increased by 200 percent. The number of people 95 years of age or older has increased by 400 percent. The number of people 100 years of age or older has increased by 1,000 percent. The number of people 105 years of age or older has increased by 2,000 percent. The number of people 110 years of age or older has increased by 4,000 percent. The number of people 115 years of age or older has increased by 8,000 percent. The number of people 120 years of age or older has increased by 16,000 percent. The number of people 125 years of age or older has increased by 32,000 percent. The number of people 130 years of age or older has increased by 64,000 percent. The number of people 135 years of age or older has increased by 128,000 percent. The number of people 140 years of age or older has increased by 256,000 percent. The number of people 145 years of age or older has increased by 512,000 percent. The number of people 150 years of age or older has increased by 1,024,000 percent. The number of people 155 years of age or older has increased by 2,048,000 percent. The number of people 160 years of age or older has increased by 4,096,000 percent. The number of people 165 years of age or older has increased by 8,192,000 percent. The number of people 170 years of age or older has increased by 16,384,000 percent. The number of people 175 years of age or older has increased by 32,768,000 percent. The number of people 180 years of age or older has increased by 65,536,000 percent. The number of people 185 years of age or older has increased by 131,072,000 percent. The number of people 190 years of age or older has increased by 262,144,000 percent. The number of people 195 years of age or older has increased by 524,288,000 percent. The number of people 200 years of age or older has increased by 1,048,576,000 percent. The number of people 205 years of age or older has increased by 2,097,152,000 percent. The number of people 210 years of age or older has increased by 4,194,304,000 percent. The number of people 215 years of age or older has increased by 8,388,608,000 percent. The number of people 220 years of age or older has increased by 16,777,216,000 percent. The number of people 225 years of age or older has increased by 33,554,432,000 percent. The number of people 230 years of age or older has increased by 67,108,864,000 percent. The number of people 235 years of age or older has increased by 134,217,728,000 percent. The number of people 240 years of age or older has increased by 268,435,456,000 percent. The number of people 245 years of age or older has increased by 536,870,912,000 percent. The number of people 250 years of age or older has increased by 1,073,741,824,000 percent. The number of people 255 years of age or older has increased by 2,147,483,648,000 percent. The number of people 260 years of age or older has increased by 4,294,967,296,000 percent. The number of people 265 years of age or older has increased by 8,589,934,592,000 percent. The number of people 270 years of age or older has increased by 17,179,869,184,000 percent. The number of people 275 years of age or older has increased by 34,359,738,368,000 percent. The number of people 280 years of age or older has increased by 68,719,476,736,000 percent. The number of people 285 years of age or older has increased by 137,438,953,472,000 percent. The number of people 290 years of age or older has increased by 274,877,906,944,000 percent. The number of people 295 years of age or older has increased by 549,755,813,888,000 percent. The number of people 300 years of age or older has increased by 1,099,511,627,776,000 percent. The number of people 305 years of age or older has increased by 2,199,023,255,552,000 percent. The number of people 310 years of age or older has increased by 4,398,046,511,104,000 percent. The number of people 315 years of age or older has increased by 8,796,093,022,208,000 percent. The number of people 320 years of age or older has increased by 17,592,186,044,416,000 percent. The number of people 325 years of age or older has increased by 35,184,372,088,832,000 percent. The number of people 330 years of age or older has increased by 70,368,744,177,664,000 percent. The number of people 335 years of age or older has increased by 140,737,488,355,328,000 percent. The number of people 340 years of age or older has increased by 281,474,976,710,656,000 percent. The number of people 345 years of age or older has increased by 562,949,953,421,312,000 percent. The number of people 350 years of age or older has increased by 1,125,899,906,842,624,000 percent. The number of people 355 years of age or older has increased by 2,251,799,813,685,248,000 percent. The number of people 360 years of age or older has increased by 4,503,599,627,370,496,000 percent. The number of people 365 years of age or older has increased by 9,007,199,254,740,992,000 percent. The number of people 370 years of age or older has increased by 18,014,398,509,481,984,000 percent. The number of people 375 years of age or older has increased by 36,028,797,018,963,968,000 percent. The number of people 380 years of age or older has increased by 72,057,594,037,927,936,000 percent. The number of people 385 years of age or older has increased by 144,115,188,075,855,872,000 percent. The number of people 390 years of age or older has increased by 288,230,376,151,711,744,000 percent. The number of people 395 years of age or older has increased by 576,460,752,303,423,488,000 percent. The number of people 400 years of age or older has increased by 1,152,921,504,606,846,976,000 percent. The number of people 405 years of age or older has increased by 2,305,843,009,213,693,952,000 percent. The number of people 410 years of age or older has increased by 4,611,686,018,427,387,904,000 percent. The number of people 415 years of age or older has increased by 9,223,372,036,854,775,808,000 percent. The number of people 420 years of age or older has increased by 18,446,744,073,709,551,616,000 percent. The number of people 425 years of age or older has increased by 36,893,488,147,419,103,232,000 percent. The number of people 430 years of age or older has increased by 73,786,976,294,838,206,464,000 percent. The number of people 435 years of age or older has increased by 147,573,952,589,676,412,928,000 percent. The number of people 440 years of age or older has increased by 295,147,905,179,352,825,856,000 percent. The number of people 445 years of age or older has increased by 590,295,810,358,705,651,712,000 percent. The number of people 450 years of age or older has increased by 1,180,591,620,717,411,303,424,000 percent. The number of people 455 years of age or older has increased by 2,361,183,241,434,822,606,848,000 percent. The number of people 460 years of age or older has increased by 4,722,366,482,869,645,213,696,000 percent. The number of people 465 years of age or older has increased by 9,444,732,965,739,290,427,392,000 percent. The number of people 470 years of age or older has increased by 18,889,465,931,478,580,854,784,000 percent. The number of people 475 years of age or older has increased by 37,778,931,862,957,161,709,568,000 percent. The number of people 480 years of age or older has increased by 75,557,863,725,914,323,419,136,000 percent. The number of people 485 years of age or older has increased by 151,115,727,451,828,646,838,272,000 percent. The number of people 490 years of age or older has increased by 302,231,454,903,657,293,676,544,000 percent. The number of people 495 years of age or older has increased by 604,462,909,807,314,587,353,088,000 percent. The number of people 500 years of age or older has increased by 1,208,925,819,614,629,174,706,176,000 percent. The number of people 505 years of age or older has increased by 2,417,851,639,229,258,349,412,352,000 percent. The number of people 510 years of age or older has increased by 4,835,703,278,458,516,698,824,704,000 percent. The number of people 515 years of age or older has increased by 9,671,406,556,917,033,397,649,408,000 percent. The number of people 520 years of age or older has increased by 19,342,813,113,834,066,795,298,816,000 percent. The number of people 525 years of age or older has increased by 38,685,626,227,668,133,590,597,632,000 percent. The number of people 530 years of age or older has increased by 77,371,252,455,336,267,181,195,264,000 percent. The number of people 535 years of age or older has increased by 154,742,504,910,672,534,362,390,528,000 percent. The number of people 540 years of age or older has increased by 309,485,009,821,345,068,724,781,056,000 percent. The number of people 545 years of age or older has increased by 618,970,019,642,690,137,449,562,112,000 percent. The number of people 550 years of age or older has increased by 1,237,940,039,285,380,274,899,124,224,000 percent. The number of people 555 years of age or older has increased by 2,475,880,078,570,760,549,798,248,448,000 percent. The number of people 560 years of age or older has increased by 4,951,760,157,141,521,099,596,496,896,000 percent. The number of people 565 years of age or older has increased by 9,903,520,314,283,042,199,193,993,792,000 percent. The number of people 570 years of age or older has increased by 19,807,040,628,566,084,398,387,987,584,000 percent. The number of people 575 years of age or older has

D-phenylglycine can be obtained enzymatic reaction is desired. The D-phenylglycine can be separated and the desired product is separated from the enzyme by treatment with an aldehyde at pH 7-8. The D-phenylglycine amide derivative is easily separated in pure form, preferably before the reaction is complete, as the solubility of the latter is higher. In summary, the

1. D-phenylglycine

[illegible]

100

[illegible]

11                   : D-phenylglycine    10.00   10.00   10.00

|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99  | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |     |

enzyme

Table 1. *Continued*

[illegible]

Figure 1. The effect of the concentration of the polymer on the gelation time of the epoxy resin.

[illegible]

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

[illegible]

1954-1955 (1955)